

CDC's Division of Laboratory Systems:

Laboratory Workforce Development Update

Renée Ned-Sykes, MMSc, PhD
Acting Workforce Team Lead
Training and Workforce Development Branch

CLIAC Meeting
April 10, 2018

Excellent Laboratories, Outstanding Health



TRAINING AND WORKFORCE DEVELOPMENT

Portfolios of Work (Highlights)

- Training Activities
 - Training Courses/Webinars
- Workforce Activities
 - Laboratory Competency Application
 - Workforce Assessment of Laboratory Communities (WALC)

CDC Laboratory Training

- **In FY2017**
 - 34 publicly available eLearning courses
 - 84 in-person workshops
- Join the **Laboratory Training Group** in CDC TRAIN

CDC Centers for Disease Control and Prevention
CDC 24/7: Saving Lives. Protecting People™

SEARCH

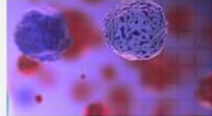

CDC A-Z INDEX

CDC Laboratory Training

f t +

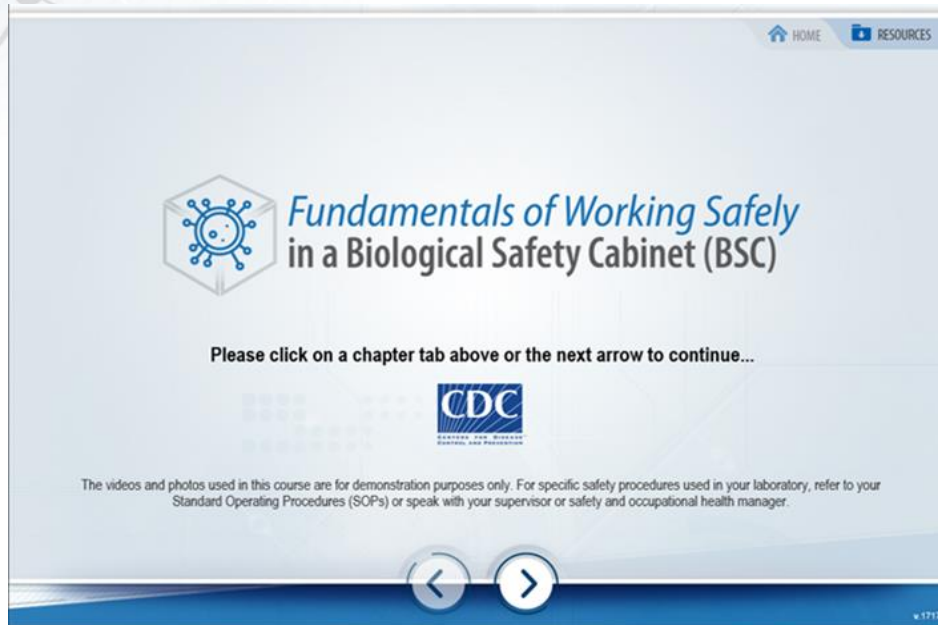
CDC BIOLOGICAL SAFETY CABINET COURSE NOW AVAILABLE!

SEARCH COURSES

Description	Additional Information
 Basic Microbiology eLearning Curriculum Learn basic microbiology laboratory skills and procedures necessary to identify microorganisms from clinical specimens. Courses include: Basic Microscopy, Basic Culture Media, Biochemicals and Gram Positive Organism ID, Biochemicals and Gram Negative Organism ID, Routine Microscopy Procedures, Antimicrobial Susceptibility Testing Methods (AST).	On-demand eLearning Level: Basic
 Biothreat Preparedness Training for Sentinel Laboratories Curriculum Learn the Laboratory Response Network (LRN) protocols for bioterrorism agent identification. Courses include: <i>Bacillus anthracis</i> , <i>Brucella</i> , <i>Burkholderia</i> spp., <i>Yersinia Pestis</i> , <i>Francisella tularensis</i> .	On-demand eLearning Level: Intermediate

<http://www.cdc.gov/labtraining>

Public Release of Laboratory Safety Training



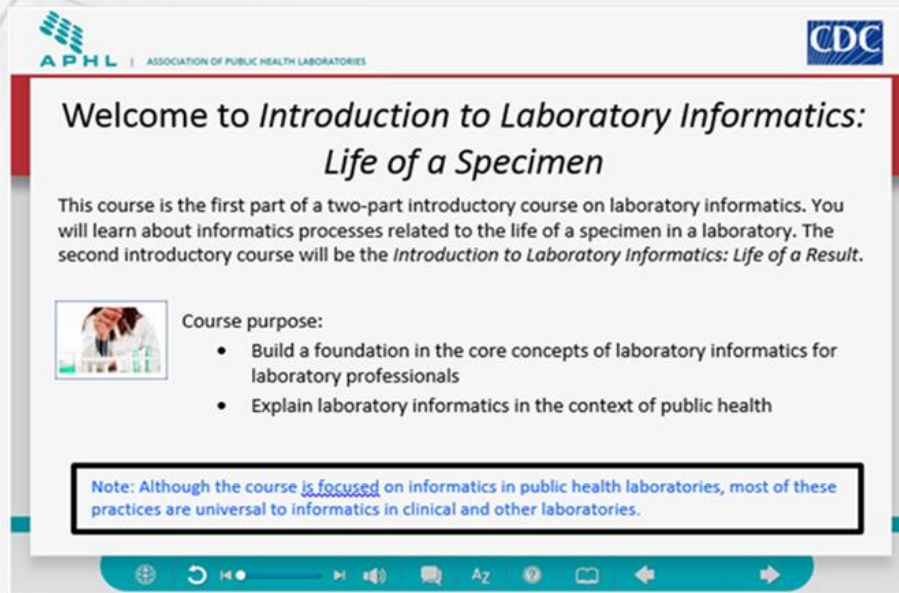
Biosafety cabinet eLearning course publicly released in 2017

- Completions: 1900
- Pre/Post Average: 74% and 94%
- Course Rating: 4.61 out of 5

Next courses to be released:

- Centrifuge Safety (Summer 2018)
- Fundamentals of Working Safely in a Chemical Fume Hood (Fall 2018)

New Effort in Laboratory Informatics Training



- ❖ Development of eLearning modules
- ❖ Trainings outline informatics capabilities, standards, and terminology that apply to both public health and clinical laboratories

- 3 Courses to be released in 2018:
 - Introduction to Laboratory Informatics: Life of a Specimen (July)
 - Introduction to Laboratory Informatics: Life of a Result (July)
 - Introduction to LIMS and Other Information Systems (Dec)

Portfolios of Work (Highlights)

- Training Activities
 - Training Courses/Webinars
- Workforce Activities
 - Laboratory Competency Application
 - Workforce Assessment of Laboratory Communities (WALC)

Laboratory Competency Guidelines

Division of Laboratory Systems (DLS)

DLS Home CDC > DLS Home

About Us +

Feature Stories

Strengthening Clinical Laboratories

CDC's Laboratory Outreach Communication System (LOCS) +

Laboratory Communicators' Network +

Free Educational Materials for Public Health and Clinical Laboratories

Competency Guidelines for Laboratory Professionals

CDC Biorepository

What's New

Get Email Updates

To receive email updates about this page, enter your email address:

What's this? Submit


Related Links

Clinical Laboratory Improvement Amendments

CDC > DLS Home

Competency Guidelines for Laboratory Professionals

f t +



CDC and the Association of Public Health Laboratories (APHL) has published the first comprehensive set of competencies for laboratory professionals. These guidelines were developed with public health laboratories in mind, but they can be used in a variety of laboratory settings. Learn more about how competency guidelines support professional development and quality service.

What Are Competencies?

Competencies are action-oriented statements of the knowledge, skills, and abilities people need to do their work successfully. They are observable and measurable.


How Can They Help?

Competencies pave the way for quality improvement and workforce development. They can be used to set standards for effective and efficient performance, identify training needs, guide professional development, and assess organizational capacity.

What Do These Guidelines Cover?

The CDC/APHL Competency Guidelines cover 15 domains, ranging from broad topics that all laboratory workers need to know—like quality management systems—to specialized topics in varied areas of practice—like chemistry and bioinformatics. The Guidelines are aligned with four skill levels—beginner, competent, proficient, and expert — and

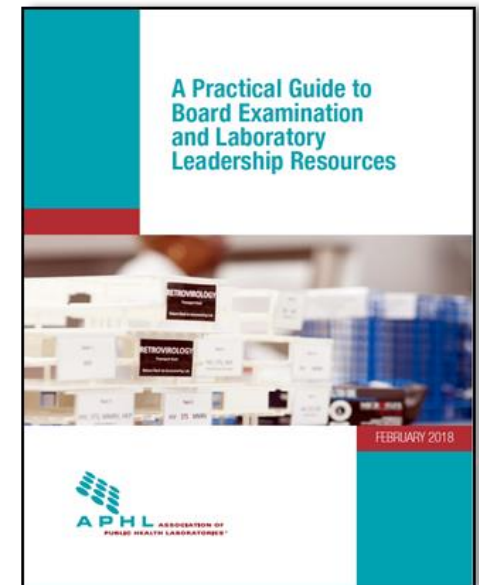
Get a Practical Guide to Board Examination and Laboratory Leadership Resources



Download PDF

Where Can You Find The Competency Guidelines and Resources?

- Working with APHL on tools and resources to aid implementation



<http://www.cdc.gov/labcompetencies>

The Workforce Assessment of Laboratory Communities (WALC)

New Initiative!

- Identify the critical training and workforce development needs in the public health lab and clinical lab communities
- Generate feedback on DLS resources, including *Laboratory Competency Guidelines* uptake and applicability
- Collaborate with partners to address gaps/needs in laboratory training and workforce development



Clinical Laboratory Partnership Forum

Partners are being engaged for the WALC



Better health through
laboratory medicine.



AMERICAN
ASSOCIATION OF
BIOANALYSTS



ASCLS
The American Society for
Clinical Laboratory Science



American Society for
Clinical Pathology



American
Clinical Laboratory
Association



AMERICAN
SOCIETY FOR
MICROBIOLOGY



CLINICAL AND
LABORATORY
STANDARDS
INSTITUTE®



CLINICAL LABORATORY
MANAGEMENT ASSOCIATION



Accreditation.
Education.
Innovation.



The Joint Commission



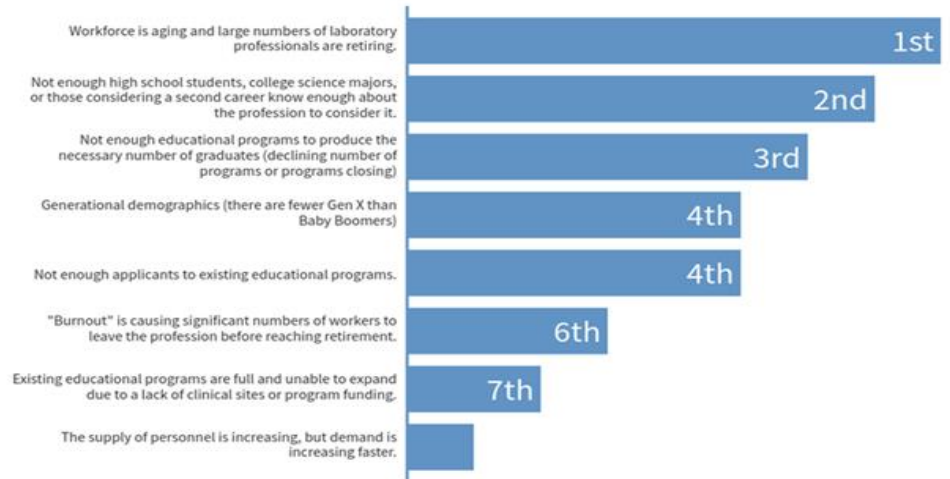
Understanding the Current Workforce Development Landscape

➤ Nov 2017 meeting of the Clinical Laboratory Partnership Forum:

- Gauged perceptions of workforce challenges
(with J. Flanigan, ASCLS)
- Data call

Rank (Most Impactful to Least Impactful) the factors causing the laboratory workforce shortage.

Respond at [PollEv.com/ascls](https://www.poll-ev.com/ascls)



Discussion Questions



- How do we best assess workforce development needs and the gaps in meeting them?
- How can CDC, CMS, and FDA assist in filling needs in the areas of workforce development and training?

For more information, contact CDC
1-800-CDC-INFO (232-4636)
TTY: 1-888-232-6348 www.cdc.gov



Images used in accordance with fair use terms under the federal copyright law, not for distribution.

Use of trade names is for identification only and does not imply endorsement by U.S. Centers for Disease Control and Prevention.

The findings and conclusions in this report are those of the authors and do not necessarily represent the official position of Centers for Disease Control and Prevention.